

**Safety data sheet
according to 1907/2006/EC, Article 31**

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

**SECTION 1: Identification of the substance/mixture and of the company/
undertaking**

1.1 Product identifier**Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs****1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: professional use.

Uses advised against: do-it-yourself

Application of the substance / the mixture Hardening agent/ Curing agent**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

RADEX-Europe Ltd.

Uriekstes iela 3, Riga

LV-1005, Latvia

Tel: +371 67387778

Fax: +371 67387789

info@radex-europe.lv

Further information obtainable from: info@radex-europe.lv**1.4 Emergency telephone number:** Tel: +371 67387778 (9:00 – 18:00)

* **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008**

GHS02

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

— EN —

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 1)

Hazard pictograms

GHS02 GHS07 GHS08

Signal word Danger**Hazard-determining components of labelling:**

hexamethylene diisocyanate homopolymer

n-butyl acetate

toluene-diisocyanate

aromatic polyisocyanate

tosyl isocyanate

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 In case of inadequate ventilation wear respiratory protection.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

* **SECTION 3: Composition/information on ingredients**

3.2 Chemical characterisation: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	25-50%
CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119485796-17	hexamethylene diisocyanate homopolymer ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	10-<20%

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 2)

CAS: 53317-61-6 NLP: 500-120-8	aromatic polyisocyanate ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	10-<20%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	5-15%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	ethyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	1-5%
	Reaction mass of ethylbenzene and xylene ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	1-5%
CAS: 4083-64-1 EINECS: 223-810-8 Reg.nr.: 01-2119980050-47	tosyl isocyanate ⚠ Resp. Sens. 1, H334; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % STOT SE 3; H335: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	0.1-<1%
CAS: 26471-62-5 EINECS: 247-722-4 Reg.nr.: 01-2119454791-34	toluene-diisocyanate ⚠ Acute Tox. 1, H330; ⚠ Resp. Sens. 1, H334; Carc. 2, H351; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412 Specific concentration limit: Resp. Sens. 1; H334: C ≥ 0.1 %	0.1-<0.5%

Additional information: For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Take affected persons out of danger area and lay down.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 3)

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

* **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

Hydrogen cyanide (HCN)

Isocyanate vapors.

Carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Avoid contact with the eyes and skin.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents.

Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

* **SECTION 7: Handling and storage**

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 4)

Do not allow to enter sewers/ surface or ground water.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Fumes can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Store only in the original receptacle.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidising agents.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

7.3 Specific end use(s) No further relevant information available.

* **SECTION 8: Exposure controls/personal protection**

Additional information about design of technical facilities: No further data; see item 7.**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****123-86-4 n-butyl acetate**

WEL (Great Britain)	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
IOELV (EU)	Short-term value: 723 mg/m ³ , 150 ppm Long-term value: 241 mg/m ³ , 50 ppm

108-65-6 2-methoxy-1-methylethyl acetate

WEL (Great Britain)	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
IOELV (EU)	Short-term value: 550 mg/m ³ , 100 ppm Long-term value: 275 mg/m ³ , 50 ppm Skin

141-78-6 ethyl acetate

WEL (Great Britain)	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm
IOELV (EU)	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm

Reaction mass of ethylbenzene and xylene

WEL (Great Britain)	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 5)

4083-64-1 tosyl isocyanate	
WEL (Great Britain)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
26471-62-5 toluene-diisocyanate	
WEL (Great Britain)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO

Regulatory information

WEL (Great Britain): EH40/2018

IOELV (EU): (EU) 2019/1831

DNELs

123-86-4 n-butyl acetate	
Dermal	DNEL 7 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL 960 mg/m ³ (acute - systemic effects, workers) 960 mg/m ³ (acute - local effects, workers) 480 mg/m ³ (long-term - systemic effects, workers) 480 mg/m ³ (long-term - local effects, workers)
28182-81-2 hexamethylene diisocyanate homopolymer	
Inhalative	DNEL 1 mg/m ³ (acute - local effects, workers) 0.5 mg/m ³ (long-term - local effects, workers)
108-65-6 2-methoxy-1-methylethyl acetate	
Dermal	DNEL 153.5 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL 275 mg/m ³ (long-term - systemic effects, workers)
141-78-6 ethyl acetate	
Dermal	DNEL 63 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL 1,468 mg/m ³ (acute - systemic effects, workers) 1,468 mg/m ³ (acute - local effects, workers) 734 mg/m ³ (long-term - systemic effects, workers) 734 mg/m ³ (long-term - local effects, workers)
Reaction mass of ethylbenzene and xylene	
Dermal	DNEL 212 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL 442 mg/m ³ (acute - systemic effects, workers) 442 mg/m ³ (acute - local effects, workers) 221 mg/m ³ (long-term - systemic effects, workers) 221 mg/m ³ (long-term - local effects, workers)
4083-64-1 tosyl isocyanate	
Dermal	DNEL 0.92 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL 3.24 mg/m ³ (long-term - systemic effects, workers)

PNECs

123-86-4 n-butyl acetate	
PNEC	0.18 mg/l (freshwater environment)

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 6)

	0.018 mg/l (marine environment) 0.36 mg/l (intermittent releases) 35.6 mg/l (sewage treatment plants) PNEC 0.981 mg/kg (freshwater sediment environment)
28182-81-2 hexamethylene diisocyanate homopolymer	
PNEC	0.127 mg/l (freshwater environment) 0.0127 mg/l (marine environment) 1.27 mg/l (intermittent releases) 88 mg/l (sewage treatment plants)
PNEC	266,701 mg/kg (freshwater sediment environment) 26,670 mg/kg (marine sediment environment) 53,183 mg/kg (soil)
108-65-6 2-methoxy-1-methylethyl acetate	
PNEC	0.635 mg/l (freshwater environment) 0.0635 mg/l (marine environment) 6.35 mg/l (intermittent releases) 100 mg/l (sewage treatment plants)
PNEC	3.29 mg/kg (freshwater sediment environment) 0.329 mg/kg (marine sediment environment)
141-78-6 ethyl acetate	
PNEC	0.24 mg/l (freshwater environment) 0.024 mg/l (marine environment) 1.65 mg/l (intermittent releases) 650 mg/l (sewage treatment plants)
PNEC	1.15 mg/kg (freshwater sediment environment) 0.115 mg/kg (marine sediment environment)
Reaction mass of ethylbenzene and xylene	
PNEC	6.58 mg/l (sewage treatment plants)
PNEC	12.46 mg/kg (freshwater sediment environment) 12.46 mg/kg (marine sediment environment)
PNEC	327 µg/l (freshwater environment) 327 µg/l (intermittent releases)
4083-64-1 tosyl isocyanate	
PNEC	0.03 mg/l (freshwater environment) 0.003 mg/l (marine environment) 0.3 mg/l (intermittent releases) 0.4 mg/l (sewage treatment plants)
PNEC	0.0172 mg/kg (marine environment) 0.172 mg/kg (freshwater sediment environment) 0.0168 mg/kg (soil)

(Contd. on page 8)

— EN —

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 7)

Ingredients with biological limit values:	
Reaction mass of ethylbenzene and xylene	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

Regulatory information BMGV (Great Britain): EH40/2011

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Keep ignition sources away - Do not smoke.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A2/P2

Protection of hands:



Protective gloves

Check the permeability prior to each renewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (EN 374).

Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

PVA gloves

Recommended thickness of the material: $\geq 0,7$ mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

Value for the permeation: Level 6 ≥ 480 min.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 9)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 8)

Eye protection:

Tightly sealed goggles

Body protection: Protective work clothing**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value: Not applicable.**Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

Flash point: 21 °C**Flammability (solid, gas):** Not applicable.**Decomposition temperature:** Not determined.**Auto-ignition temperature:** Not determined.**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.**Explosion limits:**

Lower:	1 Vol %
Upper:	15 Vol %

Vapour pressure at 20 °C: 98 hPa

Density at 20 °C:	1 g/cm ³
Vapour density	Not determined.
Evaporation rate	Not determined.

Solubility in / Miscibility with water:

Reacts with water.

Partition coefficient: n-octanol/water: Not determined.**Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

9.2 Other information No further relevant information available.

(Contd. on page 10)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 9)

SECTION 10: Stability and reactivity

10.1 Reactivity No decomposition if used according to specifications.

10.2 Chemical stability No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Reacts with water.

Reacts with alkali, amines and strong acids.

Reacts with oxidising agents.

Fumes can combine with air to form an explosive mixture.

10.4 Conditions to avoid Protect from heat and direct sunlight.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Formation of toxic gases is possible during heating or in case of fire.

* **SECTION 11: Toxicological information**

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

123-86-4 n-butyl acetate

Oral	LD50	10,760 mg/kg (rat)
Dermal	LD50	>14,000 mg/kg (rabbit)
Inhalative	LC50/4 h	23.4 mg/l (rat)

28182-81-2 hexamethylene diisocyanate homopolymer

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	11 mg/l (ATE)

53317-61-6 aromatic polyisocyanate

Oral	LD50	>5,000 mg/kg (rat)
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108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/6 h	4,345 mg/l (rat)

141-78-6 ethyl acetate

Oral	LD50	6,100 mg/kg (rat)
Dermal	LD50	>20,000 mg/kg (rabbit)
Inhalative	LC50/6 h	58 mg/l (rat)

Reaction mass of ethylbenzene and xylene

Oral	LD50	3,523-4,000 mg/kg (rat)
Dermal	LD50	12,126 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

(Contd. on page 11)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 10)

4083-64-1 tosyl isocyanate		
Oral	LD50	2,330 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
26471-62-5 toluene-diisocyanate		
Oral	LD50	5,110 mg/kg (rat)
Dermal	LD50	>9,400 mg/kg (rabbit)
Inhalative	LD50/1 h	0.47 mg/l (rat) (vapour)

Primary irritant effect:**Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation**

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure**

May cause respiratory irritation. May cause drowsiness or dizziness.

STOT-repeated exposure Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.

* **SECTION 12: Ecological information**

12.1 Toxicity**Aquatic toxicity:****123-86-4 n-butyl acetate**

LC50/96 h	18 mg/l (Pimephales promelas)
TT/16 h	115 mg/l (Pseudomonas putida)
EC50/48 h	44 mg/l (daphnia)
EC50/72 h	675 mg/l (algae)

28182-81-2 hexamethylene diisocyanate homopolymer

LC50/96 h	>100 mg/l (fish)
EC50/3 h	3,828 mg/l (microorganisms)
EC50/48 h	>100 mg/l (Daphnia magna)
EC50/72 h	>1,000 mg/l (Scenedesmus subspicatus)

53317-61-6 aromatic polyisocyanate

EC50	>10,000 mg/l (microorganisms)
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108-65-6 2-methoxy-1-methylethyl acetate

LC50/96 h	>100 mg/l (fish)
EC50/48 h	>500 mg/l (Daphnia magna)
EC20/30 min	>1,000 mg/l (microorganisms)
EC50/72 h	>1,000 mg/l (Pseudokirchnerella subcapitata)

(Contd. on page 12)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 11)

EC50	>100 mg/l (Pseudokirchnerella subcapitata) >100 mg/l (Pimephales promelas) >100 mg/l (Daphnia magna)
141-78-6 ethyl acetate	
LC50/96 h	230 mg/l (Pimephales promelas)
EC50/48 h	165 mg/l (Daphnia cucullata)
EC50/72 h	>900 mg/l (Scenedesmus subspicatus)
EC3/16 h	650 mg/l (Pseudomonas putida)
Reaction mass of ethylbenzene and xylene	
EC50/72 h	4.6-4.9 mg/l (microorganisms)
EC50/73h	2.2-4.36 mg/l (algae)
4083-64-1 tosyl isocyanate	
EC50/48 h	>100 mg/l (Daphnia magna)
EC50/72 h	30 mg/l (Pseudokirchnerella subcapitata)
LC50/48 h	>45 mg/l (fish)
26471-62-5 toluene-diisocyanate	
LC50/96 h	133 mg/l (fish)
EC50/3 h	>100 mg/l (microorganisms)
ErC50/96 h	4,300 mg/l (Chlorella vulgaris)
EC50/48 h	12.5 mg/l (Daphnia magna)
12.2 Persistence and degradability	
123-86-4 n-butyl acetate	
Biodegradation	83 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)
28182-81-2 hexamethylene diisocyanate homopolymer	
Biodegradation	1 % (not readily biodegradable) (OECD 301 D, 28 d, aerobic)
53317-61-6 aromatic polyisocyanate	
Biodegradation	% (not readily biodegradable)
108-65-6 2-methoxy-1-methylethyl acetate	
Biodegradation	100 % (readily biodegradable) (OECD 302 B, 8 d, aerobic)
141-78-6 ethyl acetate	
Biodegradation	93.9 % (readily biodegradable) (OECD 301 B, aerobic)
Reaction mass of ethylbenzene and xylene	
Biodegradation	100 % (readily biodegradable)
4083-64-1 tosyl isocyanate	
Biodegradation	86 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)
26471-62-5 toluene-diisocyanate	
Biodegradation	0 % (not readily biodegradable) (OECD 302 C, 28 d, aerobic)
12.3 Bioaccumulative potential	
123-86-4 n-butyl acetate	
BCF	15.3 (-)
log Pow	2.3

(Contd. on page 13)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 12)

28182-81-2 hexamethylene diisocyanate homopolymer	
BCF	3.2 (-)
log Pow	9.81
108-65-6 2-methoxy-1-methylethyl acetate	
log Pow	0.56
141-78-6 ethyl acetate	
BCF	30 (-)
log Pow	0.66
12.4 Mobility in soil	
123-86-4 n-butyl acetate	
log Koc	1.27
28182-81-2 hexamethylene diisocyanate homopolymer	
log Koc	7.8
108-65-6 2-methoxy-1-methylethyl acetate	
Koc	1.7

Additional ecological information:**General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
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Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

* **SECTION 14: Transport information**

14.1 UN-Number**ADR, IMDG, IATA**

UN1263

14.2 UN proper shipping name**ADR**

1263 PAINT RELATED MATERIAL

IMDG, IATA

PAINT RELATED MATERIAL

(Contd. on page 14)

Safety data sheet
according to 1907/2006/EC, Article 31


Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 13)

14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
	
Class	3
Label	3
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant (IMDG):	Not applicable. No
14.6 Special precautions for user	
Hazard identification number (Kemler code):	Warning: Flammable liquids. 33
EMS Number:	F-E, S-E
Stowage Category	B
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	
	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Transport category	2
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	1L
UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, II

* **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

National regulations:

Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

(Contd. on page 15)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 14)

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

* **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

Flammable liquids	Bridging principles
Serious eye damage/eye irritation Respiratory sensitisation Skin sensitisation Specific target organ toxicity (single exposure)	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 1: Acute toxicity - inhalation – Category 1

Acute Tox. 4: Acute toxicity - inhalation – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Sensitisation - Respiratory. Hazard category 1

Skin Sens. 1: Sensitisation - Skin. Hazard Category 1

Carc. 2: Carcinogenicity. Hazard Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

(Contd. on page 16)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.03.2020

V- 2.0

Revision: 25.02.2020

Trade name: RADEX VPR primer hardener, VHS grunts cietinātājs

(Contd. of page 15)

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Sources European Chemicals Agency, <http://echa.europa.eu/>*** Data compared to the previous version altered.**

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